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Request for Continued Examination (RCE)  Transmittal  Address to:  Mail Stop RCE Commissioner for Patents P.O. Box 1450 Allowandria, VA 22313-1450  This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application (RCE) under 37 CFR 1.114 of the above-identified application (RCE) under 37 CFR 1.116 of the above-identified application (RCE) on a page 3.    Supplies on a supplies on the application of the property of the application of the application of the application of the property of the application of the ap	PTO/S8/30 (09-03)  Approved for use through 07/31/2008, 04/8 0651-0031  U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  Under the Paperwork Reduction Act of 1995, no persons are required to respond to a cofoction of information unless it contains a yalld OMB control number.								
Continued Examination (RCE)  Transmittal  Address to:  Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450  All Unit  Examiner Name  Eugene Loe  Art Unit  Examiner Name  Eugene Loe  Examiner Name  Eugene Loe  Eugene Loe  Art Unit  Examiner Name  Eugene Loe  Examiner Name  Eugene Loe  Botales of Eugene Loe  Art Unit  Examiner Name  Eugene Loe  Examiner Name  Eugene Loe  Examiner Name  Eugene Loe  Botales of Eugene Loe  Eugene Loe  Examiner Name  Eugene Loe  Eugene Lo	•	Application Number	09/955,722						
Transmittal  Address to:  Mail Stop RCE Commissioner for Patents P.O. Box 1400 Allocandria, VA 22313-1450  Attorney Docket Number  Bugene Lee P.O. Box 1400 Allocandria, VA 22313-1450  Attorney Docket Number  Bugene Lee P.O. Box 1400 Allocandria, VA 22313-1450  Attorney Docket Number  Bugene Lee P.O. Box 1400 Attorney Docket Number  Bugene Lee Proper any previously tilled unerhand amendments and amendments terded and mendments and amendments terdes and mendments and amendments terdes and mendments and amendments (In applicant doce not wish to have any previously field unerhand amendments (In applicant doce not wish to have any previously field unerhand amendments (In applicant doce not wish to have any previously field unerhand amendments (In applicant doce not wish to have any previously field unerhand amendments (In applicant doce not wish to have any previously field unerhand amendments (In applicant doce not wish to have a suppression even if this box is not checked.  L. Previously submitted. If a final Office action is outstanding, any amendments field after the final Office action may be considered as a submission even if this box is not checked.  L. Previously submitted. If a final Office action is outstanding, any amendments field after the final Office action may be considered as a submission even if this box is not checked.  L. Previously submitted of the List Previously filed on D8 1/2 2003  Bugenesian of action on the above-Identified application is requested under 37 CFR 1.17(e) is required by 37 CFR 1.104(e) for a previously filed on previously filed on previously f	· <del>- ·</del>	09/18/2001							
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Commissioner for Patents  Alexandrie, VA 22313-1450  Alexandrie, VA 22313-1450  Alexandrie, VA 22313-1450  Alexandrie, VA 22313-1450  This is a Request for Continued Examination (RCE) under 37 CFR 1.114 or the above-identifiled application. See instruction Sheat for RCEs (rat to be submitted to the USPTO) on page 2.  1. Submission required under 37 CFR 1.114 (see not apply to any utility or plant application filed prior to June 8, 1985, or to any design application. See instruction Sheat for RCEs (rat to be submitted to the USPTO) on page 2.  1. Submission required under 37 CFR 1.114 (see in the USPTO) on page 2.  1. Submission required under 37 CFR 1.114 (see in the USPTO) on page 2.  1. Submission required under 37 CFR 1.114 (see in the USPTO) on page 2.  1. Submission required under 37 CFR 1.114 (see in the USPTO) on page 2.  2. Previously submitted, if a final Office action is outstanding, any amendments filed after the final Critice action may be considered as a submission over if this box is not checked.  1. Consider the arguments in the Appeal Brief or Rely Brief previously filed on	•	Art Unit	2815						
Alexandria, VA 22313-1450  Altorney Docket Number   SD-6436.1  This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-Identified application. Request for Continued Examination (RCE) under 37 CFR 1.114 does not apply to any utility or plant application. Request for Continued Examination (RCE) under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unerthered amendments and emergements enclosed with the RCE will be entered in the order in which they were that unders applicant instructs otherwise. If applicant does not wish to have any previously filed unerthered amendment(s) ordered, applicant must request non-entry of such amendment(s).  a. Previously submitted, if a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.  i. Consider the arguments in the Appeal Brief or Rety Brief previously filed on 08/12/2003  ii. Other  b. Enclosed  ii. Antidavit(sy) Declaration(s)  iii. Antidavit(sy) Declaration(s)  iii. Other  2. Miscellaneous  Suspension of action on the above-identified application is requested under 37 CFR 1.103(o) for a period of	Commissioner for Patents	Examiner Name	Eugene Lee						
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### sementiments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).  ### applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendments filed after the final Office action may be considered as a submission even if this box is not checked.  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on ### 12 / 2003  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on the Enclosed  ### Consider the arguments in the Appeal Brief or Rely Brief previously tiled on the Rel Brief or Rely	Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8.								
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The Director is hereby authorized to charge the following fees, or credit any overpayments, to  Deposit Account No. 19-0131  i.	Suspension of action on the above-identified application is requested under 37 CFR 1.103(o) for a a months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required) b Other								
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C. Payment by credit card (Form PTC-2038 enclosed)  WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTC-2038.  SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED  Name (PrintType)   Robert D. Watson   Registration No. (Altomoy/Agent)   45.604  Signature   Date   09 / 2 / 2 / 2 / 3  CERTIFICATE OF MAILING OR TRANSMISSION  I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE. Commissioner for Patents, P. O. Box 1450, Alexandris, VA 22313-1450 or facelimite transmitted to the U.S. Patent and Tradomark Office on the date shown below.  Name (PrintType)   Robert D. WATSON   Date   09 - 25 - 2003			ori						
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED  Name (Print/Type)   Robert D. Watson   Registration No. (Attornoy/Agent)   45.604  Signature   Date   09 / 2 / 2 0 3  CERTIFICATE OF MAILING OR TRANSMISSION  I hereby certify that this correspondence is being deposited with the United States Posted Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE. Commissioner for Patents. P. O. Box 1450, Alexandria, VA 22313-1450 or facultile transmitted to the U.S. Potent and Tradomark Office on the date shown below.  Name (Print/Type)   Robert D. WATSON  Signature   Date   09 - 25 - 2003	S. C. Silver at the sales of th								
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED  Name (Print/Type)   Robert D. Watson   Registration No. (Attorney/Agent)   45.804  Signature   Calont D. Watson   Oate   09 /2 x / 2003  CERTIFICATE OF MAILING OR TRANSMISSION  I hereby certify that the correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facelimite transmitted to the U.S. Patent and Tradomark Office on the date shown below.  Name (Print/Type)   Robert D. WATSON   Date   09-25-2003	WARNING: Information on this form may become public. Credit card information should not								
Name (Print/Type) Robert D. Watson Registration No. (Altomoy/Agent) 45.604  Signature Date 09/27/2003  CERTIFICATE OF MAILING OR TRANSMISSION  I hereby certify that title correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE. Commissioner for Patents, P. O. Box 1450, Alexandris, VA 22313-1450 or facelimite transmitted to the U.S. Patent and Tradomark Office on the date shown below.  Name (Print/Type) Robert D. WATSON  Signature Date 09-25-2003									
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or faceintile transmitted to the U.S. Patent and Tradomark Office on the date shown below.  Name (Print/Type) Robert D. WATSON  Signature Date 09-25-2003	Cignature								
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to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submidting the completed application form to the USPTO. Throw will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Petent and Trademark Office, Washington, DC 20231. DO NOT SEND FESS OR COMPLETED FORMS TO THIS ADDRESS. SEND TQ: Assistant Commissioner for Patons, Washington, DC 20231.

F-964

TO:

: Examin r Eugene Le

Fax No.

: 703-872-9319

FROM

: Robert D. Watson, # 45,604

Sandia National Laboratories

(505) 845-3139 (Voice)

**Applicant** 

: Peterson

Application No. 09/955,722

Reply with RCE

Docket No.:

SD-6436.1

Art Unit

Subject:

2815

Date

09/25/2003

Number of Pages (Including Cover Sheet) \_\_\_

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FROM-Sandia Labs

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Application No. 09/955,722 SD-6436.1 S-97675

Application No.

09/955,722

Applicant:

Peterson

Title:

**Temporary Coating for Protection of Microelectronic Devices** 

**During Packaging** 

Filing Date:

09/18/2001

Art Unit

Examiner

2815

Eugene Lee

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Docket No.:

SD-6436.1

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Assistant Commissioner for Patents Box RCE Washington DC 20231

September 25, 2003

# Request for Continuing Examination (RCE) under 37 CFR 1.114 and Reply to the Advisory Action

Dear Sir:

In response to the Advisory Action of 09/09/2003, applicants submit herein a Request for Continuing Examination (RCE) under 37 CFR 1.114 of the above identified application. Applicants also submit a Reply to the Advisory Action.

Applicants respectfully request that the Office reconsider the patentability of the invention in light of the arguments and amendments presented herein. Applicants submit the following in complete response thereto.

Applicants herewith petition the Assistant Commissioner of Patents under 37 CFR 1.136(a) to extend the time for reply to the Final Office dated 04/16/2003. The Office is hereby authorized to charge **Deposit Account # 19-0131** for any necessary fees regarding this Reply, the Request for Continuing Examination, the petition to extend the time for reply, and any future reply(s) requiring a petition for an extension of time under 37 CFR 1.136(a).

#### INTRODUCTORY COMMENTS

#### Claim History

- Claims 1-34 were originally filed on 09/18/2001.
- In the First Amendment dated 02/03/2003:
  - claims 31-34 were cancelled in response to a restriction requirement, as being drawn to a non-elected invention;
  - · claims 15 and 16 were cancelled;
  - claims 1, 10, 17, 19, 25, 28, 29 and 30 were amended; and
  - new claims 35-44 were added.
- In the Amendment after Final dated 08/12/2003:
  - claim 28 was amended (however, the amendment was not entered by the Office)
- Claims 1-14, 17-30 and 35-44 are currently pending.

#### **CLAIM AMENDMENTS**

- · Please amend the Claims as follows:
- 1. (previously amended) A temporarily protected wafer, comprising:
  - a sensitive area disposed on a surface of the wafer, and
  - a vapor-deposited, water-insoluble temporary protective coating directly contacting and covering the sensitive area;
  - wherein the protective coating is insoluble in organic solvents;
  - wherein the coating remains in place during singulation of the wafer into individual device dies; and further
  - wherein a sufficient amount of the coating is removed to activate the sensitive area prior to completing packaging of the die.
- 2. (original) The temporarily protected wafer of claim 1, wherein the sensitive area comprises a released MEMS device.
- (original) The temporarily protected wafer of claim 1, wherein the sensitive area comprises a pressure-sensitive microsensor.
- 4. (original) The temporarily protected wafer of claim 1, wherein the sensitive area comprises a chemically sensitive microsensor.
- 5. (original) The temporarily protected wafer of claim 1, wherein the sensitive area comprises a temperature-sensitive microsensor.
- 6. (original) The temporarily protected wafer of claim 1, wherein the sensitive area comprises a released IMEMS device.
- 7. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises a vacuum vapor-deposited coating.
- 8. (original) The temporarily protected wafer of claim 7, wherein the vacuum vapordeposited coating comprises a parylene polymer.
- 9. (original) The temporarily protected wafer of claim 8, wherein the parylene coating is selected from the group of parylene polymers consisting of poly-para-xylylene, poly-para-xylylene modified by the substitution of a chlorine atom for one

- aromatic hydrogen, and poly-para-xylylene modified by the substitution of a chlorine atom for two aromatic hydrogens.
- 10. (previously amended) The temporarily protected wafer of claim 8, wherein the parylene coating comprises a copolymer compound formed by blending a reactive parylene monomer with a reactive material.
- 11. (original) The temporarily protected wafer of claim 10, wherein the reactive material comprises a monomer containing an element selected from the group consisting of silicon, carbon, and fluorine, and combinations thereof.
- 12. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises silicon dioxide, silicate glass, or silicon nitride.
- 13. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises a metal.
- 14. (original) The temporarily protected wafer of claim 13, wherein the metal comprises aluminum or tungsten.
- 15. (CANCELLED)
- 16. (CANCELLED)
- 17. (previously amended) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises one or more materials selected from the group consisting of a carbon film, an amorphous carbon film, and a diamond-like carbon film.
- 18. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises a self-assembled monolayered material.
- 19. (previously amended) The temporarily protected wafer of claim 1, wherein the temporary protective coating comprises perfluoropolyether.
- (original) The temporarily protected wafer of claim 1, further comprising exposed bond pads.
- 21. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating is deposited using a Chemical Vapor Deposition (CVD) process.

- 22. (original) The temporarily protected wafer of clalm 1, wherein the temporary protective coating is deposited using a Plasma Enhanced Chemical Vapor Deposition (PACVD) process.
- 23. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating is deposited at essentially ambient temperature.
- 24. (original) The temporarily protected wafer of claim 1, wherein the temporary protective coating is deposited by polymerizing a monomeric gas on at least the sensitive area.
- 25. (previously amended) A temporarily protected die, comprising: a sensitive area disposed on a surface of the die; and a vapor-deposited, water-insoluble temporary protective coating directly contacting and covering the sensitive area;
  - wherein the protective coating is insoluble in organic solvents; and wherein a sufficient amount of the coating is removed to activate the sensitive area prior to completing packaging of the die.
- 26. (original) The temporarily protected die of claim 25, wherein the sensitive area comprises a released MEMS device.
- 27. (original) The temporarily protected die of claim 26, wherein the temporary protective coating comprises a parylene polymer.
- 28! (CURRENTLY AMENDED) A temporarily protected wafer, comprising:
  - a sensitive area disposed on a surface of the wafer comprising a released MEMS device having a released MEMS element;
  - a performance-enhancing coating disposed directly on the released MEMS element; and
  - a vapor-deposited, water-insoluble temporary protective coating disposed directly on top of the performance-enhancing coating;
  - wherein the protective coating is insoluble in organic solvents; and wherein the coating remains in place during singulation of the wafer into individual device dies, and further wherein a sufficient amount of the coating is removed to re-release the MEMS element prior to completing packaging of the die, without removing the performance-enhancing coating.

- 29. (previously amended) The temporarily protected wafer of claim 28, wherein the performance-enhancing coating comprises one or more materials selected from the group consisting of an anti-stiction film, an adhesion-inhibiting film, a lubricant, and a nitrided-surface.
- 30. (previously amended) The temporarily protected wafer of claim 28, wherein the performance-enhancing coating comprises one or more materials selected from the group consisting of perfluoropolyether, hexamethyldisilazane, and perfluorodecanoic carboxylic acid.

#### 31-34. (CANCELLED)

- 35. (previously added) The temporarily protected wafer of claim 1, wherein the temporary protective coating is insoluble in organic solvents heated to less than or equal to 150 C.
- 36. (previously added) The temporarily protected wafer of claim 1, wherein the temporary protective coating is excluded from covering any wafer streets.
- 37. (previously added) The protected die of claim 25, wherein the die is mechanically attached and electrically interconnected to a package.
- 38. (previously added) The die of claim 37, wherein the sensitive area comprises a released MEMS element.
- 39. (previously added) The die of claim 37, wherein the die is wirebonded to the package.
- 40. (previously added) The die of claim 37, wherein the die is flip-chip bonded to the package.
- 41. (previously added) The die of claim 38, wherein the temporary protective coating is sufficiently thick so as to immobilize the released MEMS element.
- 42. (previously added) The die of claim 38, wherein the temporary protective coating is sufficiently thin so as to not immobilize the released MEMS element.
- 43. (previously added) A protected die, comprising:
  - a sensitive area disposed on a surface of the die, the area comprising a released MEMS device having a released MEMS element;
  - a performance-enhancing coating disposed directly on the released MEMS element; and

a vapor-deposited, water-insoluble temporary protective coating disposed directly on top of the performance-enhancing coating;

wherein the protective coating is insoluble in organic solvents; and wherein the die is attached and electrically interconnected to a package.

44. (previously added) The die of claim 43, wherein the temporary protective coating is sufficiently thin so as to not immobilize the released MEMS element.

#### REMARKS

#### Status of Claims

Claims 1-14, 17-30 and 35-44 are currently pending.

#### Amendments to the Claims

Applicants have amended claim 28, which includes the limitation "wherein the protective coating is insoluble in organic solvents".

#### Comments on the Previously filed Amendment after Final

Applicants submitted an Amendment after Final on 08/12/2003. Applicants desire that the same amendments and arguments presented regarding the claim rejections be re-considered in this RCE, in addition to new arguments presented below.

#### 103 Rejections

In the Advisory Action dated 09/09/2003, the Office repeated the rejections of claims 1-14, 17-27 and 35-42 under 35 USC 103(a) as being unpatentable over Kao et al. in view of Wu et al.

#### Issue #1. The Office has failed to make a prima facie case of Obviousness.

In order to make a *prima facie* case of obviousness, the Office must show that the combination of references (Kao et al and Wu et al) teach all of the elements recited in Applicant's claims.

Kao et al does not teach a vapor-deposited protective layer that is insoluble in water or organic solvents, which is directly in contact with the sensitive area. Instead, Kao teaches a water soluble layer (which is not a water insoluble material) directly in contact with released MEMS structures.

Wu et al does not teach a vapor-deposited protective layer that is insoluble in water or organic solvents, which at is directly in contact with the sensitive area. Instead, Wu teaches that the material directly in contact with the sensitive area is a thick (e.g., 10 mil) layer of a silicon elastomer (which is not a vapor-deposited material). Wu then teaches that a parylene material is then applied as a second layer on top of the silicon elastomer first layer. In Wu, the parylene second layer protects the silicon elastomer first layer from jet fuel and oil. However, Wu does not teach a parylene layer that is directly in contact with the sensitive area. Wu simply does not recognize the problem of large hydrodynamic forces applied to fragile released MEMS structures

when liquid baths are used to remove the protective coating; Wu never discusses this aspect of MEMS fabrication.

Since neither Kao or Wu teach a vapor-deposited protective layer that is insoluble in water or organic solvents, which is directly in contact with the sensitive area (as recited in applicant's claims 1-14, 17-27 and 35-42) then not all of the elements ar present in the combined references. Therefore, a prima facle case of obviousness cannot be made, and the rejections should be withdrawn.

Issue #2. The Office has failed to provide any teaching, suggestion, or motivation to make the combination of Kao et al with Wu et al.

The Office has failed to present any line of reasoning, specific understanding or principle within knowledge of a skilled artisan, or objective evidence that teaches, suggests or motivates why a person of ordinary skill in the art would make the combination of Kao et al. and Wu et al.

The Office improperly uses **hindsight** in choosing prior art references to combine in its 103 rejections (See MPEP 2145).

Without such a teaching, suggestion, or motivation to combine *Kao et al* with *Wu et al.*, the rejections of claims 1-14, 17-27 and 35-42 under 35 USC 103(a) is improper and should be withdrawn.

Issue #3. The references cited by the Office teach away from making the combination.

Kao teaches away from using a water insoluble material (such as parylene) as a protective layer directly in contact with released MEMS structures:

"A significant problem with use of photoresist or any other substantially water insoluble material as the protective layer is the requirement of a post saw clean[ing] operation using environmentally unfriendly solvents (i.e., acetone) to remove the protective layer from the surface of the wafer and associated microelectromechanical systems".

(See Kao et al., Col. 1, lines 56-65)

Kao's solution to this problem (which is the gist of his invention) is to use a water soluble protective layer that is directly in contact with the MEMS structures, so that undesirable solvents (like acetone) don't need to be used when removing the temporary coating; all that is needed is a simple water bath. Kao simply does not recognize the problem of large hydrodynamic forces applied to fragile, released MEMS structures when using liquids (i.e., water) to remove the protective coating.

Claims 1-14, 17-27 and 35-42 require that the protective coating directly in contact with the sensitive area be water insoluble. Kao clearly teaches away from this.

It is improper to combine these two references when the references themselves teach away from their combination (See MPEP 2145.X.D2). Accordingly, the rejections are improper and should be withdrawn.

## Rejection of Claims 28-30 and 43-44 under 35 USC 103(a)

The office rejected claims 28-30 and 43-44 under 35 USC 103(a) as being unpatentable over Kao et al. in view of Smith et al.

In response, applicants have amended claim 28 to recite, *inter alia*, a limitation that the protective coating is insoluble in organic solvents. Claim 43 includes the same limitation.

As admitted by the Office, Kao et al. does not teach that the protective coating directly in contact with the sensitive area is insoluble in organic solvents. Since neither Kao et al. nor Smith et al., either alone or in combination, teach all of the limitations of claims 28 and 43, a prima facie case of obviousness cannot be made, and, hence, the rejections should be withdrawn.

Accordingly, claims 28 and 43 are now in condition for allowance.

Claims 29-30 depend from claim 28. As presented above, claim 28 is now in condition for allowance. All claims depending from an allowed claim are allowable. Therefore, claims 29-30 are now in condition for allowance.

Claim 44 depends from claim 43. As presented above, claim 43 is now in condition for allowance. All claims depending from an allowed claim are allowable. Therefore, claim 44 is now in condition for allowance.

### CONCLUSION

Applicants have responded to each and every objection and rejection, and urge that claims 1-14, 17-30 and 35-44 as presented are now in condition for allowance. Applicants request expeditious processing to issuance.

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